

Application/Control No.

10/625,277

Examiner

Thanh Y. Tran

Applicant(s)/Patent under Reexamination

KIM ET AL.

Art Unit

2822

| √ | Rejected |
|---|----------|
|   | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   |                                |

Restricted

| ral) | Ζ | Non-Elected  |
|------|---|--------------|
|      | _ | Interference |

| A | Appeal   |
|---|----------|
| C | Objected |

| Cla      | aim          |            |               |        | Dat     | е        |           |                |           | Cla      | im       |             |              |          | Date          |        |          |          | CI    | aim      |          |              |  | Date     | •        |                 |               |        |
|----------|--------------|------------|---------------|--------|---------|----------|-----------|----------------|-----------|----------|----------|-------------|--------------|----------|---------------|--------|----------|----------|-------|----------|----------|--------------|--|----------|----------|-----------------|---------------|--------|
|          | <del>-</del> | _          |               |        |         |          |           |                |           |          | _        |             |              |          |               |        |          |          |       | <u>-</u> |          | İ            | -                                      |          |          |                 | İ             |        |
| Final    | Original     | 3/17/07    |               |        | 1       |          |           | -              |           | Final    | Original |             |              |          |               |        |          |          | Final | Original |          |              |  |          |          | ļ               |               |        |
| ΙĒ       | ,<br>Ž       | 3/1        |               | Ì      |         |          |           |                |           | iĒ       | 漢        |             |              |          |               |        |          |          | 证     | 😤        | İ        |              |  |          |          | ı               |               |        |
|          |              | Ľ          |               |        |         |          |           | _              | _         |          |          |             |              |          |               |        |          | Ш        |       |          |          |              |  |          |          |                 | 丄             |        |
|          | 1            | -          |               |        |         |          |           |                |           |          | 51       |             |              |          |               |        |          | Ш        |       | 101      |          | $\perp$      | L                                      |          |          |                 |               |        |
|          | 2            | -          |               |        |         |          |           |                |           |          | 52       |             |              |          |               |        |          |          |       | 102      |          |              | 1_                                     |          |          |                 |               |        |
|          | 3            | -          |               |        |         |          |           |                |           |          | 53       |             |              |          |               |        |          |          |       | 103      |          |              | <u>L</u>                               | <u> </u> |          |                 |               |        |
|          | 4            | -          |               |        |         |          |           |                |           |          | 54       |             |              |          |               |        |          |          |       | 104      |          |              |  |          |          |                 |               |        |
|          | 5            | -          |               |        |         |          |           |                |           |          | 55       |             |              |          |               |        |          |          |       | 105      |          |              |  |          |          |                 |               | ╝      |
|          | 6            | <u> </u> - |               |        |         |          |           |                |           |          | 56       |             |              | <u> </u> |               |        |          |          |       | 106      |          |              |  |          |          |                 |               |        |
|          | 7            | 1          |               |        |         |          |           |                |           |          | 57       |             |              |          |               |        |          |          |       | 107      |          |              |  |          |          |                 |               |        |
|          | 8            | √          |               |        |         |          |           |                |           |          | 58       |             |              |          |               |        |          |          |       | 108      |          |              |  |          |          |                 |               |        |
|          | 9            | √          |               |        |         |          |           |                |           |          | 59       |             |              |          |               |        |          |          |       | 109      |          |              |  |          |          |                 |               |        |
|          | 10           | 1          |               |        |         |          |           |                |           |          | 60       |             |              |          |               |        |          |          |       | 110      |          |              |  |          |          |                 |               |        |
|          | 11           | 1          |               |        |         |          |           |                |           |          | 61       |             |              |          |               |        |          |          |       | 111      |          |              |  |          |          |                 |               |        |
|          | 12           | -          | $\Box T$      |        | $\prod$ |          |           | $\Box T$       |           |          | 62       |             | $oxed{T}$    |          |               |        |          |          |       | 112      |          | $oxed{\Box}$ | $\mathbb{I}^{-}$                       |          |          |                 | $\Box$        |        |
|          | 13           | 1          |               |        |         |          |           |                |           |          | 63       |             |              |          |               | T      |          |          |       | 113      |          |              |  |          |          | Ţ               | 丁             | ٦      |
|          | 14           | √          |               |        |         |          |           | T              |           |          | 64       |             | $\prod$      |          |               |        |          | ,        |       | 114      |          | $\prod$      |  |          |          |                 |               |        |
|          | 15           | 1          |               |        | $L^{T}$ |          |           | $\Box$         |           |          | 65       |             | $oxed{\Box}$ |          |               |        |          |          |       | 115      |          | $oxed{\Box}$ |  |          |          |                 |               |        |
|          | 16           | 1          |               |        | $L^{-}$ |          |           | $\Box$ T       |           |          | 66       | $\Box \top$ | $oxed{\Box}$ |          |               |        | $\Box$   |          |       | 116      |          | $oxed{\Box}$ |  |          |          |                 | $\Box\Gamma$  |        |
|          | 17           | √          |               |        |         |          |           | $\Box \top$    |           |          | 67       | $\Box T$    | $oxed{oxed}$ |          |               |        |          |          |       | 117      |          | $oxed{T}$    |  |          |          |                 | $\Box \Gamma$ |        |
|          | 18           | -          |               |        |         |          |           |                |           |          | 68       |             |              |          |               |        |          |          |       | 118      |          |              | П                                      | П        |          |                 |               |        |
|          | 19           | 1          |               |        |         |          |           |                |           |          | 69       |             |              |          |               |        |          |          |       | 119      |          |              |  |          |          |                 |               |        |
|          | 20           | 1          |               |        |         |          |           |                |           |          | 70       |             |              |          |               | _      |          |          |       | 120      |          |              | 1                                      | T-       |          |                 |               | _      |
|          | 21           |            |               |        |         | П        |           |                |           |          | 71       |             | T            |          |               |        |          |          |       | 121      |          | $\top$       | T                                      |          |          | $\neg$          | $\neg$        |        |
|          | 22           | 1          |               |        | T       | П        |           |                |           |          | 72       |             | $\top$       |          |               | 1      |          |          |       | 122      | $\neg$   |              | Τ                                      |          |          | $\neg$          | $\Box$        | ٦      |
|          | 23           | 1          |               |        |         |          |           |                |           |          | 73       |             | $\top$       |          |               |        |          |          |       | 123      |          |              |  |          |          | T               | T             | ٦      |
|          | 24           | 1          |               |        |         |          |           | İ              |           |          | 74       |             | $\top$       |          |               | 1      |          |          |       | 124      |          |              |  | 1        |          |                 | $\neg$        | 7      |
|          | 25           | 1          |               |        |         | П        |           |                |           |          | 75       |             |              |          |               | $\top$ |          |          |       | 125      |          |              |  |          |          | 一               | $\top$        | 7      |
|          | 26           | √          |               |        |         |          |           |                |           |          | 76       |             | T            |          |               |        |          |          |       | 126      |          |              |  |          |          | 一               |               | 7      |
|          | 27           | 1          |               | 1      | T       | П        |           |                |           |          | 77       |             |              |          | $\Box$        | 丁      | T        | 1        |       | 127      | $\neg$   |              |  |          |          | 一               |               | ٦      |
|          | 28           | 1          |               |        | $\top$  | П        |           |                |           |          | 78       |             |              |          | $\Box$        |        | П        |          |       | 128      | $\neg$   |              |  |          |          | T               | Т             | ٦      |
|          | 29           | 1          |               |        | Τ       |          |           |                |           |          | 79       |             |              |          |               |        |          |          |       | 129      |          |              |  |          |          |                 | T             | ٦      |
|          | 30           |            |               | Т      | П       | П        |           |                |           |          | 80       | $\neg$      |              |          |               |        |          |          |       | 130      | П        |              |  |          |          |                 | $\top$        |        |
|          | 31           |            |               | $\top$ | Т       | П        |           |                |           |          | 81       | $\neg$      |              |          |               | $\top$ | 1 1      |          |       | 131      | $\neg$   | Т            | Τ                                      |          |          | 一               | $\top$        | ٦      |
|          | 32           |            |               | $\top$ |         | П        |           | $\neg$         |           |          | 82       |             |              |          |               | $\neg$ |          |          |       | 132      |          | 1            |  |          |          |                 | Т             | ٦      |
|          | 33           |            |               |        |         | П        |           |                |           |          | 83       |             |              |          |               |        |          |          |       | 133      |          | $\top$       |  |          |          |                 | $\top$        | ٦      |
|          | 34           |            |               | T      |         |          |           |                |           |          | 84       |             | Ì            |          |               |        |          |          |       | 134      | 1        | Τ            |  |          |          | $\neg$          | $\Box$        | ٦      |
|          | 35           |            |               |        |         |          |           |                | $\neg$    |          | 85       |             | T            |          |               | •      |          |          |       | 135      |          | Т            | T                                      |          |          |                 | 丁             |        |
|          | 36           |            |               | $\top$ |         |          | $\neg$    | $\neg$         | 7         |          | 86       | T           | $\top$       |          |               |        | П        |          |       | 136      |          | $\top$       |  |          |          |                 | $\top$        | ٦      |
|          | 37           |            |               | 1      | 1       | П        | $\dashv$  | 寸              | _         |          | 87       |             | $\top$       | $\Box$   |               | 1      | П        |          |       | 137      | _ -      | 1            | Ī                                      |          |          |                 | 丁             | ٦      |
|          | 38           |            |               | 1 "    | Т       |          | $\exists$ | $\top$         | $\exists$ |          | 88       |             | 1            | П        |               | 1      | -        |          |       | 138      | $\neg$   | 1            |  |          | $\neg$   | $\dashv$        | 丁             | ٦      |
|          | 39           |            |               | 1      | 1       |          | 寸         | $\neg$         | $\exists$ |          | 89       | $\neg$      | $\top$       | П        |               | $\neg$ | П        | $\neg$   |       | 139      |          | 1            | 1                                      |          | $\neg$   | $\neg \uparrow$ | $\top$        | ٦      |
|          | 40           |            |               | 1      |         | П        | 7         | $\neg$         | $\exists$ |          | 90       | $\neg$      | $\top$       | П        |               | $\top$ | $\Box$   | $\neg$   |       | 140      | $\neg$   | 1            |  |          |          | $\neg$          | 十             | ٦      |
|          | 41           |            | $\neg \vdash$ | 1      | 1       | П        | 7         | $\neg \dagger$ | -         |          | 91       | $\top$      | $\top$       | П        |               | 1      | П        |          |       | 141      | $\neg$   |              |  |          | コ        | $\neg$          | $\top$        | ٦      |
|          | 42           |            | $\Box$        | $\top$ | T       | П        | 7         | 1              |           |          | 92       | $\neg$      | 1            | П        |               |        | П        |          |       | 142      |          | T            | Т                                      | П        | T        | 寸               | 十             | $\neg$ |
|          | 43           |            |               |        | Τ       | П        | $\neg$    | $\top$         | 7         |          | 93       | $\top$      | T            | $\sqcap$ |               | $\top$ | П        | _        |       | 143      | $\neg$   | T            | 1                                      | П        |          | $\dashv$        | 十             | ٦      |
| $\Box$   | 44           |            |               | 1      | T       | Ħ        | $\neg$    | $\neg$         | 7         |          | 94       | $\top$      | $\top$       | П        | $\dashv$      | 1      | П        | $\neg$   |       | 144      | 1        | 1            | 1                                      | П        |          | 一               | $\top$        | 7      |
| П        | 45           |            | $\neg \vdash$ |        |         | П        | $\neg$    | $\top$         | $\neg$    | $\neg$   | 95       | $\neg$      |              | $\sqcap$ | $\neg \vdash$ | _      | П        |          |       | 145      |          | Τ            |  | П        | 寸        | $\neg$          | 十             | ヿ      |
| П        | 46           |            |               |        |         | П        | 十         | $\top$         | $\dashv$  |          | 96       |             | 1            | П        |               | 1.     | П        | $\neg$   |       | 146      | 十        | 1            | T                                      | П        |          | 丁               | $\neg$        | 7      |
|          | 47           |            |               | $\top$ | 1       | $\sqcap$ | 7         | $\dashv$       | $\dashv$  |          | 97       | $\top$      | ┪~           | $\vdash$ |               | ┰      | $\Box$   | _        |       | 147      | 一        | $\top$       | 1                                      | $\Box$   | $\dashv$ | $\neg$          | $\top$        | ┪      |
|          | 48           |            | $\dashv$      | ╅      |         | $\vdash$ | $\dashv$  | $\top$         | 1         |          | 98       | $\top$      | $\top$       | $\Box$   |               | 1      | H        | $\dashv$ |       | 148      |          | +            | 1                                      | П        | $\dashv$ | $\dashv$        | $\top$        | 7      |
| $\Box$   | 49           | $\vdash$   | $\dashv$      | $\top$ |         | $\vdash$ | +         | $\dashv$       | $\dashv$  | $\dashv$ | 99       | +           | +            | $\vdash$ | $\dashv$      | +-     | $\vdash$ | -        | -     | 149      | $\top$   | T            | T                                      | П        | _        | $\dashv$        | 十             | ┨      |
| $\vdash$ | 50           | $\vdash$   | $\neg \vdash$ | $\top$ | $\Box$  | -        | $\dashv$  | $\dashv$       | -         |          | 100      |             | +            | $\vdash$ |               | +-     | $\Box$   | $\dashv$ |       | 150      | $\dashv$ | $\top$       | t                                      | М        | $\dashv$ | 寸               | +             | ┪      |
|          | <u> </u>     | L          | L             |        | Щ.      |          |           |                | :لــــ    | <br>     | 100      |             |              |          |               |        | 11       | :        | <br>  | ,00      |          |              | ــــــــــــــــــــــــــــــــــــــ |          |          |                 | —-            |        |